

## LAKE WASHINGTON – NORTH LAKE WASHINGTON TRIBS CHINOOK

This stock was called North Lake Washington Tribs summer/fall Chinook in the 1992 SASSI. Run timing designations have been dropped from most Puget Sound Chinook stock names because they have been inconsistently applied.

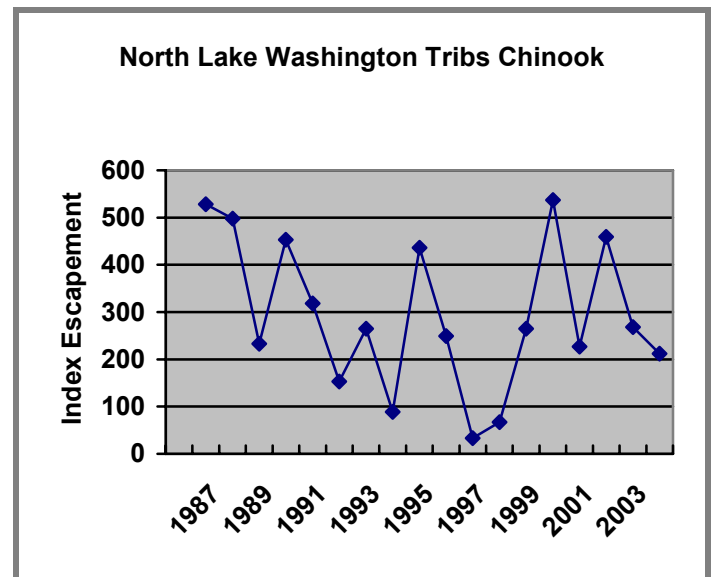
### STOCK STATUS

1992 STATUS	2002 STATUS
Unknown	Healthy

### STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS: *Good*

YEAR	INDEX ESCAPEMENT
1986	528
1987	498
1988	233
1989	453
1990	318
1991	153
1992	265
1993	89
1994	436
1995	249
1996	33
1997	67
1998	265
1999	537
2000	227
2001	459
2002	268
2003	212



Data are index escapement estimates based on counts of live Chinook in Bear Creek (RM 1.3 to 8.8) and in Cottage Lake Creek (RM 0 to 2.3), a Bear Creek tributary. In addition, other portions of the watershed are surveyed annually.

Run sizes fluctuate considerably. This variation is normal for small watersheds such as these. Overall, index abundance has generally been between 200 and 500 adults. These escapements are probably underestimates because of the substantial numbers of Chinook observed spawning outside of index areas. Stock status is rated **Healthy** in 2002.

### STOCK DEFINITION

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North Lake Washington Tribs Chinook were identified as a stock based on their distinct spawning distribution.

**SPAWNING DISTRIBUTION:** Most spawning takes place in North, Swamp, Bear, Little Bear, Thornton, McAleer and Cottage Lake creeks as well as in the Sammamish River.

**SPAWNING TIMING:** Spawning generally occurs from mid-September through October.

**GENETIC ANALYSIS:** Allozyme analysis of the Issaquah and North Lake Washington Tribs Chinook stocks has yielded no strong indication that the two stocks are genetically distinct (Marshall 2000). Microsatellite DNA analysis of essentially the same samples also showed no evidence that the Issaquah and North Lake Washington Tribs populations were significantly different from one another (Young and Shaklee 2000). Both Lake Washington stocks were significantly different from Soos Creek Hatchery (Green River) Chinook and from White River (Puyallup) spring Chinook sampled at the Hupp Springs Hatchery (Young and Shaklee 2000).

### STOCK ORIGIN

This is a **mixed** stock with **composite** production.